

# CONCRETE CURING COMPOUND FRACURE WAX EMULSION

## TECHNICAL DATA

### 1.0 DESCRIPTION

FRACURE WAX EMULSION is a water-based wax emulsion concrete curing compound which helps ensure that maximum strength and wear resistance of the concrete are achieved. When applied at 5 – 10m<sup>2</sup> per litre, it creates an impermeable seal which optimises water retention. Use on either interior or exterior, horizontal or vertical concrete applications where subsequent coatings or treatments will not be applied. FRACURE WAX EMULSION achieves the highest degree of protection from moisture loss compared to other curing compounds.

A white pigmented version is also available for curing areas exposed to high levels of sunlight to help reflect heat away from the concrete surface.

### 2.0 PROPERTIES

2.1. Colour	White (dries clear)
2.2. Viscosity	Water thin
2.3. Minimum Application Temp.	7°C substrate temperature
2.4. Toxicity	Non-toxic
2.5. D.G. Classification	Non-hazardous
2.6. Specifications	Exceeds ASTM-C-309-97 and NZS 3109 when applied at 5m <sup>2</sup> per litre.
2.7. Shelf Life	1 year in original unopened containers stored above 7°C. Stir before use. DO NOT expose to temperatures below 7°C. See Section 5.0: Precautions
2.8. Coverage	5 – 10m <sup>2</sup> per litre depending on surface porosity, texture and compliance requirements.

### 3.0 USES

Recommended for:

- Curing high performance floor toppings and dry shake hardeners (check compatibility with manufacturer of topping or hardener before application of FRACURE WAX EMULSION).
- Areas that are not to be subsequently coated, such as pavements, hard-standing areas, etc.
- When flammable solvents must be avoided.
- When very high moisture retention requirements are necessary.

Not recommended:

- As a non-slip surface while the curing membrane is intact.
- For any concrete requiring subsequent coating, including application of paint, epoxies, membranes, etc that must bond onto or into the concrete.

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## TECHNICAL DATA Continued

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### 4.0 APPLICATION INSTRUCTIONS

- 4.1. Stir gently before each use. Apply FRACURE WAX EMULSION by constant pressure sprayer, airless industrial sprayer, or roller at the coverage rate recommended above in two applications, half the amount at right angles to the other. A typical manual airless sprayer is recommended for an easy, economical method of application.
- 4.2. Apply to exposed concrete surfaces as soon as the sheen of moisture brought to the surface by final screeding or trowelling has disappeared, but while the concrete is still damp. If brushes are used and the concrete is still wet enough to be marked by the brush it is too early to apply the curing compound. This timing is important for satisfactory curing.
- 4.3. **IMPORTANT:** FRACURE WAX EMULSION is very difficult to remove from concrete once applied. Ease of curing compound removal is directly related to length of time the compound is left on floor. Complete removal may not be possible.
- 4.4. **DRYING TIME:** Approximately 60 minutes at 21 °C with the relative humidity at 50%. A higher humidity and/or a lower temperature will increase the drying time. Restrict foot traffic for at least 4 – 12 hours until completely dry.
- 4.5. **REMOVAL:** Once applied, it is unlikely that all traces of FRACURE WAX EMULSION will be able to be removed from the surface or pores of the concrete to which it is applied. To determine if the product can be removed, utilize commercial or household water soluble strippers such as Cleaning Solution from Fraser Brown & Stratmore Ltd. The stripper should be applied directly to the floor, uniformly spread across the surface, and given enough time to soften the coating. A mechanical scrubber should be used. **DO NOT USE** steel wool pads or steel bristle brushes. Thoroughly wash the surface with clean water. If residual FRACURE WAX EMULSION remains on the surface, reapply the stripper and repeat the scrubbing procedure. Some residual wax may remain after cleaning.  
**DO NOT acid etch.** Acids will **NOT** dissolve the wax coating but **WILL** dissolve the surface of the concrete floor.
- 4.6. **CLEAN UP:** Hands and equipment should be washed with hot water and detergent before FRACURE WAX EMULSION dries.

### 5.0 PRECAUTIONS

FRACURE WAX EMULSION must always be well stirred before using. Occasional re-stirring will eliminate settling.

Do not apply to any surface where subsequent coatings are to be applied (including paint, epoxies, membranes, coatings, etc. that must bond onto or into the concrete). Do not use on brick, stone, masonry, etc.



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## TECHNICAL DATA Continued

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### 5.0 PRECAUTIONS (continued)

DO NOT allow this product to be exposed to ambient temperatures lower than 7°C. If this should occur, the product will thicken and become unusable, necessitating proper disposal. Store containers in a location that is not subject to low temperatures. Keep away from frost.

Best results will occur when ambient temperatures, concrete, product, and all associated equipment are between 7°C and 29°C.

DO NOT use as a bond breaker, apply over a bond breaker, e.g., DISCRETE, or apply a bond breaker on to FRACURE WAX EMULSION.

DO NOT apply while standing water remains on slab. DO NOT add water, solvent or otherwise dilute the product.

Areas treated with FRACURE WAX EMULSION may be slippery when wet. Use care when walking on a treated area.

### 6.0 PACKAGING

20 litre and 210 litre drums.



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